

soils low in copper where phosphates are added in relatively small amounts. The research reported herein indicates that no detrimental effects of phosphates can be expected when they are applied in the normal manner and at the usual rates of application to young trees on previously unfertilized soil. The fact that responses in growth were obtained to phosphate fertilizers indicates that phosphorus should be included in fertilizers applied to young trees. The fact that no response was obtained to phosphorus applications on bearing Valencia trees during the first three years the experiments were conducted further substantiates the earlier finding that phosphorus accumulates in an available form in these soils and that it is possible to build up the phosphorus level so that continuous phosphorus applications are unnecessary.

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